## Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

• (a) Trees and Shrubs for Windbreak and Environmental Plantings

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## Table 9.--Windbreaks and Environmental Plantings

(Only the soils suitable for windbreaks and environmental plantings are listed. Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol	Trees having predicted 20-year average height, in feet, of						
and soil name	<8	8-15	16-25	1 26-35	>35		
	1	1	I	I			
	1	1	l	I	I		
10000:	1	1	I	I	1		
Barden	fragrant sumac,	gray dogwood,	eastern redcedar	Austrian pine,	I		
	ninebark	possumhaw, Amur	l	Norway spruce,	1		
	1	maple	l	common hackberry,	1		
	1	1	I	honeylocust, pin			
	1	1	1	oak	1		
	I	1	I	I	I		
10003:	1	1	<u> </u>	<u> </u>	1		
Woodson	fragrant sumac,	gray dogwood,		Austrian pine,	!		
	ninebark	possumhaw, Amur	  -	Norway spruce,	1		
	1	maple	!	common hackberry,	1		
	1	!	!	honeylocust, pin	1		
	I .	I .	  -	oak			
	1	!	!	l	1		
0004:	16	1 44		 			
Barden	fragrant sumac,	gray dogwood,		Austrian pine,			
	ninebark	possumhaw, Amur		Norway spruce,			
	1	maple		common hackberry,			
	1	1		honeylocust, pin	1		
	1	1	 	oak	1		
10005:	1	1	 	 	1		
	laamman ninahark	lymmir morolo exert	  eastern redcedar	l Mustrian nino	l		
Sylvania	common ninebark,   fragrant sumac			Austrian pine,   Norway spruce,	<del></del>		
	ITAGIAN SUNAC	dogwood, possumhaw	! !	common hackberry,	1		
	1	1	 	_	1		
	1	1	! !	honeylocust, pin   oak	1		
	1	1	! !	l Oak	1		
10006:	1	1	! !	! !	I I		
Barco	American plum,		  Austrian pine, black	l Lebortloof nino	l		
Barco	_	-	_	Shortlear pine			
	common lilac,   fragrant sumac		oak, common   hackberry, eastern	! !	1		
	ITAGIAN SUMAC	1	redcedar, white ash		I I		
	1	1	reacedar, writte asir	! 	l I		
Sylvania	1	Ohio buckeye,	  Austrian pine,	eastern cottonwood	  Carolina poplar		
Sylvania .	i	bitternut hickory,	honeylocust, red	l			
	i	cockspur harthorn,	_	' 	1		
	i	common chokecherry	-	I	i I		
	i	eastern redcedar	ash	I	i I		
	i	1	1	I	i I		
10007:	i	i	I	I	I		
Eldorado	Amur honeysuckle,	autumn olive	Russian olive, bur	Siberian elm			
	common lilac,		oak, common	I	I		
	fragrant sumac		hackberry, eastern	I	I		
	i	i	redcedar, Austrian	I	i		
	i	i	pine, green ash,	I	i		
	1	1	honeylocust	I	I		
	1	1	- 	I	1		
	1	1	I	I	I		
4000:	1		eastern redcedar	Austrian pine,			
	fragrant sumac,	gray dogwood,					
4000: Cherokee	fragrant sumac,   ninebark	gray dogwood,   possumhaw, Amur	I	Norway spruce,	1		
14000: Cherokee				Norway spruce,   common hackberry,	1		
		possumhaw, Amur	I		 		
		possumhaw, Amur	 	common hackberry,	 		
		possumhaw, Amur	 	common hackberry,   honeylocust, pin	 		
Cherokee		possumhaw, Amur	 	common hackberry,   honeylocust, pin	 		
Cherokee		possumhaw, Amur	 	common hackberry,   honeylocust, pin	          honeylocust, easte:		
		possumhaw, Amur   maple     	          eastern redcedar,	common hackberry,   honeylocust, pin   oak 			
Cherokee		possumhaw, Amur   maple            American plum,	        eastern redcedar,   red mulberry	common hackberry,   honeylocust, pin   oak      Russian olive, bur	_		

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Table 9.--Windbreaks and Environmental Plantings--Continued

Man armh al		Manana harri wan wana di aba	d 00 h-i		
Map symbol		<del></del>	d 20-year average hei		
and soil name	I <8	8-15	16-25	1 26-35	>35
	1				1
	1				1
46002:	1	l 	I	l 	
Hepler	• •		Washington hawthorn,		eastern white pine,
	fragrant sumac	dogwood	nannyberry, eastern	ash, sweetgum	pin oak
	1	!	redcedar	l	1
E0006	1	!	<u> </u>	l	1
70006:	I	l		l 	1
Creldon				Carolina poplar,	
	· ·	-	eastern white pine,	eastern cottonwood	1
		•	red pine, black	l	1
	black chokeberry,	arborvitae, common	•	  -	1
	common chokecherry,		hackberry, green	 	1
	common elderberry,		ash, shortleaf pine	  -	
	common juniper,	crabapple, smooth	1	  -	
	coralberry,	sumac, bur oak,   chinkapin oak,	1	 	1
	mapleleaf viburnum,   roughleaf dogwood,	eastern redcedar	! !	! !	1
		eastern redecar	1 1	! !	1
	silky dogwood	I 1	1	 	1
70008 70008 70010	1	! !	! !	! !	1
70008, 70009, 70010:	lfmagmant gumag	lamonicon nam const	  Washington hawthorn,	l Inhita fin amaan	locatore white nine
Goss	- fragrant sumac	dogwood, southern	-	ash, northern red	eastern white pine
	1	arrowwood		•	1
	1	allowwood	eastern redecar	oak, tuliptree	1
70012:	1	! !	1 1	! !	1
Hoberg	 - American	  American hazelnut,	  Virginia pine,	  Carolina poplar,	l
noberg		·	eastern white pine,		1
	_	-	red pine, black	l cascern corconwood	1
	black chokeberry,	arborvitae, common	_	' 	1
	common chokecherry,	· ·	hackberry, green	I	I
	common elderberry,	·	ash, shortleaf pine	I	I
	common juniper,	crabapple, smooth		I	I
	coralberry,	sumac, bur oak,	I	I	I
	mapleleaf viburnum,		I	I	I
	roughleaf dogwood,	eastern redcedar	I	I	I
	silky dogwood	I	1	I	Ī
	1	I	1	I	Ī
70041:	i				İ
Goss	- Amur honeysuckle,	autumn olive	Russian olive, bur	Siberian elm	
	common lilac,	l	oak, common	l	İ
	fragrant sumac	l	hackberry, eastern	I	Ī
	1	l	redcedar, Austrian	I	Ī
	Ī	l	pine, green ash,	I	İ
	1	l	honeylocust	I	Ī
	1	I	_ 	I	1
70042:	1	I	I	I	1
Goss	- fragrant sumac	American plum, gray	Washington hawthorn,	white fir, green	eastern white pine
	1	dogwood, southern	eastern redbud,	ash, northern red	1
	1	arrowwood	eastern redcedar	oak, tuliptree	1
	1	I	I	I	1
70045:	1	I	I	I	1
Keeno	- American	American hazelnut,	Virginia pine,	Carolina poplar,	
	cranberrybush,	Washington	eastern white pine,	eastern cottonwood	1
	American plum,	hawthorn,	red pine, black	I	1
	black chokeberry,	arborvitae, common	oak, common	I	1
	common chokecherry,	serviceberry,	hackberry, green	I	1
	common elderberry,	nannyberry, prairie	ash, shortleaf pine	I	1
	common juniper,	crabapple, smooth	I	I	1
	coralberry,	sumac, bur oak,	I	I	I
	mapleleaf viburnum,	chinkapin oak,	I	I	1
	roughleaf dogwood,	eastern redcedar	I	I	1
	silky dogwood	I	I	I	1
	1	I	I	I	1

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Table 9.--Windbreaks and Environmental Plantings--Continued

Map symbol		Trees having predicted	d 20-year average hei	ght, in feet, of	
and soil name	<8	l 8-15	16-25	1 26-35	>35
	1	1	1	1	1
	1	1	<u> </u>	1	1
70047:	16	13	 	1 1:11 - 6:	1
Wanda	fragrant sumac	American plum, gray   dogwood, southern	wasnington nawthorn,   eastern redbud,	ash, northern red	eastern white pine
	1		eastern redoud,   eastern redoedar		1
	1	arrowwood	eastern redeedar	oak, tuliptree	1
73008:	1	1	! 	1	1
	  American plum,	Washington hawthorn,	  Austrian pine.	· 	
	_	gray dogwood, Amur	_	I	i I
	fragrant sumac		common hackberry,	I	I
		-	eastern redcedar,	I	I
	i I		unknown,	I	I
	i I		honeylocust	I	I
	i I	I		I	I
3010:	i	I	I	I	I
	- American plum,	Washington hawthorn,	Austrian pine,		
	_	gray dogwood, Amur	Virginia pine,	İ	Ī
			common hackberry,	I	Ī
	1	-	eastern redcedar,	I	Ī
	1	1	unknown,	I	1
	1	I	honeylocust	I	I
	1	I	I	I	I
73031:	1	1	I	1	1
Gerald	- American	American hazelnut,	Virginia pine,	Carolina poplar,	
	cranberrybush,	Washington	eastern white pine,	eastern cottonwood	1
	American plum,	hawthorn,	red pine, black	1	1
	black chokeberry,	arborvitae, common	oak, common	1	1
	common chokecherry,	serviceberry,	hackberry, green	I	I
	common elderberry,	nannyberry, prairie	ash, shortleaf pine	I	I
	common juniper,	crabapple, smooth	l	1	I
	coralberry,	sumac, bur oak,	l	1	I
	mapleleaf viburnum,	chinkapin oak,	I	1	1
	roughleaf dogwood,	eastern redcedar	I	1	1
	silky dogwood	1	I	1	1
	1	1	I	1	1
3075:	1	1	I	1	I
Hobson	_	=		honeylocust	I
	common lilac		crabapple, Russian	I	I
	1		olive, eastern	1	1
	1		redcedar, common	1	1
	1		hackberry, green		1
	1		ash, Austrian pine,	1	1
	1	1	jack pine	1	1
14641	1	1	1	1	I
4641:	1	 	 	 	I
Secesh		· • ·	eastern redcedar	Austrian pine,	eastern cottonwood
	1	common lilac, Amur   maple, autumn olive		common hackberry,	1
			I	green ash,	I
	1	maple, autumn olive		I hanord agreet sees	ı
		maple, addumi office		honeylocust, pin	I
	 	maple, aucum offve		honeylocust, pin   oak, eastern white   pine	1 1